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FM NPIC WASHDC
TO RUEOJFA/DIA (DIAXX-2)
RUEOJFA/JCS (JRC)
RUEFHQA/HQ USAF FOR AFNICAD & AFRDRP
RUCSAAA/SAC (DIR)
RUWMDDA/9 SRW (DCI)
BT
S E C R E T CITE NPIC 4516. 25X1
SUBJECT: EVALUATION OF GIANT SCALE 25X1
25X1

OUT65868

1. QUALITY SUMMARY: THIS MISSION PROVIDES IMAGERY COMPARABLE TO MOST RECENT GIANT SCALE MISSIONS. THE IMAGERY IS DEGRADED IN BOTH TECHNICAL OBJECTIVE CAMERAS AFTER THE SECOND CAMERA OFF/ON. THE LEFT OPERATIONAL OBJECTIVE CAMERA CONTAINS EVIDENCE OF ACROSS TRACK SMEAR ON THE FIRST LEG OF THE MISSION. PI SUITABILITY RANGES FROM POOR TO GOOD. THE FOLLOWING GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES AND INDICATE THAT AN OBJECT ONE-HALF THAT SIZE CAN BE DETECTED. THE RESOLUTION VALUES WERE OBTAINED FROM CLOSE FREE IMAGERY OF THE ORIGINAL NEGATIVE AT OR NEAR NADIR AND WHERE

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2. CLOUDS OBSCURE OR DEGRADE 40 PERCENT OF THE ENTIRE MISSION.
3. THE MISSION EMPLOYED THE USUAL SENSORS AND WAS PROCESSED AT THE ONLY MATERIALS EVALUATED WERE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS. 25X1
4. ANALYSIS OF THE TECHNICAL OBJECTIVE MATERIAL:
   A. COMMENTS APPLICABLE TO BOTH CAMERAS:
      (1) APPROXIMATELY 7 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
      (2) MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN CONFIGURATION AND RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS OF THE FILM ARE PRESENT THROUGHOUT THE MISSION.
      (3) FOG CAUSED BY STATIS DISCHARGES CAN BE DETECTED ALONG BOTH EDGES OF THE NEGATIVE. 25X1
      (4) BANDING IS PRESENT THROUGHOUT THE MISSION.
      (5) INTERMITTENT EMULSION LIFTS AND SCRATCHES ARE APPARENT.

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      (6) AFTER THE SECOND CAMERA OFF/ON THE IMAGERY IS DEGRADED (OUT OF FOCUS) IN COMPARISON TO PRECEDING FRAMES. THE CAUSE HAS NOT BEEN DETERMINED.
      (7) TWO PLUS DENSITY STREAKS ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. ONE IS LOCATED 2.0 INCHES FROM THE TITLED EDGE OF THE FILM AND THE OTHER 2.0 INCHES FROM THE NON-TITLED EDGE. RANDOM OVAL PLUS DENSITY FOG AREAS ARE LOCATED WITHIN 2.0 INCHES OF EACH EDGE OF THE FILM. ALSO RANDOM, IRREGULAR SHAPED PLUS DENSITY FOG AREAS ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.
      (8) THE DENSITY IS GENERALLY MEDIUM BUT VARIES FROM LIGHT TO HEAVY. THE CONTRAST IS ALSO GENERALLY MEDIUM BUT VARIES

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FROM LOW TO HIGH.
B. LEFT TECHNICAL OBJECTIVE CAMERA (AL), SN 64-21:
(1) STRIPS OF EMULSION, VARYING IN LENGTH 1.5 TO 2.5 INCHES, HAVE BEEN LIFTED FROM FRAMES 583, 1164, 1196, 1243, AND 1256. THE EMULSION PARTICLES ARE TRANSFERRED TO FOLLOWING FRAMES.
(2) BETWEEN FRAMES 174/175 AND 250/251 IS CLEAR FILM ATTACHED WITH MYLAR TAPE. A HEAT SPLICE IS LOCATED BETWEEN

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FRAMES 629/630.
(3) CAMERA OFF/ONS ARE LOCATED BETWEEN THE FOLLOWING FRAMES: 90/91, 313/314, 475/476, 613/614, 679/680, AND 983/984.
(4) THE EVENTS COUNTER HAS A PLUS 33 BIAS WITH THE TITLED FRAME NUMBER.
(5) LAST TITLED FRAME: 1260.
C. RIGHT TECHNICAL OBJECTIVE CAMERA (AR), SN 64-22:
(1) A 0.2 INCH WIDE MINUS DENSITY STREAK IS PRESENT ALONG THE NON-TITLED EDGE OF THE FORMAT THROUGHOUT THE MISSION.
(2) A PLUS DENSITY STREAK, ALONG THE NON-TITLED EDGE OF THE FORMAT IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. FRAME 1014 HAS THREE PLUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS AND ONE PARALLEL TO THE MINOR AXIS. FRAME 1297 HAS FOUR BANDS OF PLUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS.
(3) BETWEEN FRAMES 68/69, 235/236, AND 686/687 IS CLEAR FILM SPLICED WITH MYLAR TAPE. A HEAT SPLICE IS LOCATED BETWEEN FRAMES 677/678.
(4) CAMERA OFF/ONS ARE LOCATED BETWEEN THE FOLLOWING FRAMES: 92/93, 315/316, 479/480, 645/646, 703/704, AND

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1014/1015.
(5) THE EVENTS COUNTER HAS A PLUS 38 BIAS WITH THE TITLED FRAME NUMBER.
(6) LAST TITLED FRAME: 1297.
5. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERA MATERIAL:
A. COMMENTS APPLICABLE TO BOTH CAMERAS:
(1) TIMING DOTS BEGIN 0.6 INCH AFTER START OF SCAN AND END 0.75 INCH AFTER END OF SCAN.
(2) THE FIRST 0.75 INCH OF SCAN IS DEGRADED AND APPEARS TO BE OUT OF FOCUS. THE FIRST 0.25 INCH OF THE DEGRADATION IS MOST SEVERE.
(3) APPROXIMATELY THREE OF THE STRETCH MARKS ON EACH FRAME ARE NOT IMAGED. TITLING OBSCURES OTHERS ALONG THE TITLED EDGE.
(4) THE NEGATIVE CONTAINS AN UNUSUALLY HIGH AMOUNT OF FOREIGN MATTER AND PINHOLES.
(5) FAINT MINUS DENSITY STREAKS ARE PRESENT PARALLEL TO THE FILM'S MAJOR AXIS.
B. LEFT OPERATIONAL OBJECTIVE CAMERA, SN 40-27:
(1) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 864/865,

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AND 1555/1556.

(2) SPLICES ARE PRESENT BETWEEN FRAMES 339/340, 340/341, 679/680, 680/681, 964/965, 1019/1020, 1020/1021, 1359/1360, 1699/1700, 1700/1701, 1924/1925, 2039/2040 AND 2040/2041.

(3) A ROW OF MINUS DENSITY DOTS ARE PRESENT 1.5 INCHES APART, 1.3 INCHES FROM THE TITLED EDGE.

(4) LAST TITLED FRAME - 2177; COUNTER - 2178.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA SN 40-30:

(1) CAMERA OFF/ONS OCCURRED BETWEEN FRAMES 877/878 AND 1577/1578.

(2) THERE ARE SPLICES BETWEEN FRAMES 340/341, 680/681, 866/867, 1020/1021, 1360/1361, 1700/1701, 1887/1888, AND 2040/2041.

(3) THERE IS EVIDENCE OF ACROSS TRACK SMEAR ON THE FIRST FIVE INCHES OF SCAN ON THE FIRST LEG OF THE MISSION. IT APPEARS MOST SEVERE AT A POINT 3.0 INCHES AFTER START OF SCAN. THE SMEARING APPEARS MARKEDLY DIMINISHED ON THE SECOND LEG AND CANNOT BE DETECTED ON THE THIRD LEG.

(4) LAST TITLED FRAME - 2208; COUNTER - 2208.

GP-1

S E C R E T

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END OF MESSAGE